

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 01/25/2022 09:15 AM  
**Cytometer Baseline:** 01/20/2022 09:34 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 32272 **Expiration Date:** 09/30/2022  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 124808              | -1                        | 1.23                    | 124731                  | 1.19                 |
| Blue   | F        | SSC         | 125000       | 123882              | -1                        | 2.37                    | 124354                  | 2.23                 |
| Blue   | E        | FITC        | 13602        | 13290               | -3                        | 2.14                    | 371                     | 13.12                |
| Blue   | D        | PE          | 24891        | 24354               | -3                        | 1.56                    | 579                     | 10.25                |
| Blue   | B        | PerCP-Cy5-5 | 33972        | 33395               | -2                        | 2.80                    | 952                     | 14.25                |
| Blue   | A        | PE-Cy7      | 22865        | 22820               | -1                        | 4.67                    | 479                     | 29.65                |
| Red    | C        | APC         | 47198        | 46700               | -2                        | 2.52                    | 1615                    | 11.15                |
| Red    | A        | APC-Cy7     | 26454        | 25748               | -3                        | 2.91                    | 728                     | 11.86                |
| Violet | B        | V450        | 6737         | 6504                | -4                        | 3.28                    | 450                     | 10.96                |
| Violet | A        | V500        | 29317        | 27878               | -5                        | 2.86                    | 953                     | 7.94                 |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 24318                   | 2.01                 | 529  | -6     | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 55829                   | 1.93                 | 513  | -8     | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 55                      | 53.22                | 482  | -2     | 0.0460 | 96   | Pass |
| Blue   | D        | PE          | 111                     | 38.02                | 484  | -2     | 0.4119 | 278  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 150                     | 40.95                | 577  | -2     | 0.0223 | 117  | Pass |
| Blue   | A        | PE-Cy7      | 81                      | 75.43                | 620  | -1     | 0.0232 | 0    | Pass |
| Red    | C        | APC         | 338                     | 24.98                | 570  | -2     | 0.0299 | 176  | Pass |
| Red    | A        | APC-Cy7     | 137                     | 34.11                | 548  | -3     | 0.0070 | 1590 | Pass |
| Violet | B        | V450        | 77                      | 44.48                | 443  | -7     | 0.0612 | 2149 | Pass |
| Violet | A        | V500        | 113                     | 29.07                | 461  | -8     | 0.0277 | 697  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

# Cytometer Performance Report

Cytometer: FACSCantoII  
Cytometer Name: FACSCantoII  
Serial Number: V33896201821  
Input Device: Carousel  
Tube Loaded Manually: Yes  
Cytometer Configuration: Euroflow 3-laser, 8-color (4-2-2)

User: Administrator  
Institution: N/A  
Software: BD FACSDiva 8.0.2  
Date: 01/25/2022 09:15 AM  
Cytometer Baseline: 01/20/2022 09:34 AM  
P/F: Pass

## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.64 - 71.46    | N/A          | N/A                     | -31.79                 | -31.56                          | 1.11                |
| Blue   | 20.35      | 16.28 - 24.42    | 1.29         | 1.03 - 1.55             | 0.00                   | 0.00                            | 1.43                |
| Red    | 15.68      | 13.90 - 20.86    | N/A          | N/A                     | 29.93                  | 30.16                           | 1.21                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.93

## Threshold

Threshold (FSC): 9783

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.70

Comments